

MATERIAL SAFETY DATA SHEET

U-MIX PRODUCTS COMPANY

6200 Cornhusker Highway
Lincoln, NE 68507

Effective Date July 1, 1999

Emergency Telephone Number (402) 434-1866

PRODUCT NAME: PakMix Type I/II Portland Cement PakMix Masonry Cement
PakMix Type III Portland Cement

CHEMICAL NAME: Portland Cement, Lime

CHEMICAL FAMILY: Portland Cement, Hydrated Lime, and Silica Sand

FORMULA: $3\text{CaO} \cdot \text{SiO}_2$ $2\text{CaO} \cdot \text{SiO}_2$ $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ $4\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3$
Plus traces of CaO, MgO, K_2SO_4 , and Na_2SO_4

AGGREGATES:

PHYSICAL/CHEMICAL CHARACTERISTICS: Grey Powder - Odorless

PHYSICAL HAZARDS: Portland Cement and lime form alkaline, caustic compounds when mixed mixed into concrete and mortar. Skin contact may result in irritation or burning (Cementdermatitis).

Explosion-Flammability Hazard: None
Specific Gravity ($\text{H}_2\text{O} = 1$) 3.0-3.2

HEALTH HAZARD DATA: Portland Cement and lime may cause eye irritation and skin irritation to those with sensitive skin.
In case of eye contact, flush immediately with clean water and consult a physician promptly.
In case of skin contact, wash thoroughly immediately after contact.
Any lung disorder may be aggravated by exposure to silica.
Continued inhalation of respirable sized silica over a long period of time without respiratory protection could increase possibility of Silicosis.

ROUTE OF ENTRY: Skin contact or absorption and inhalation.

REACTIVITY DATA: Material is stable. Hazardous polymerization will not occur.
Reacts with water to form stable hydrated calcium silicates and aluminates.

Incompatibility: Material to avoid - acids

PRODUCT: PakMix Portland Type I/II, III, and Masonry Cement

SPILLAGE PROCEEDURES: If product is dry, prevent material from becoming airborne. Do not let cement or lime exceed 50 MppCF. If product is wet, material may be retained until it hardens when it can be disposed of as common waste. Avoid direct or indirect contact with product freshly mixed with water. Waste disposal in approved landfill.

SPECIAL PRODUCT INFORMATION: NIOSH approved nuisance dust respirator and when possible, ample mechanical ventilation.
Personal Protection Equipment--wear tight fitting goggles when concrete may splash. Wear rubber boots high enough to prevent concrete from flowing into them, waterproof gloves, long sleeved shirt, water resistant clothing. Remove saturated clothing or shoes and rinse with running water until soapy feeling disappears.

SPECIAL PRECAUTIONS: Keep Portland and Masonry Cement, and freshly-mixed cement products out of reach of children.
